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ABSTRACT

Over the past 20 years, the Maricopa County Community College District (MCCCD) has undergone a substantial shift in the number of credit hours for which its students enroll. In 1969, the percentage of students who enrolled for three credit hours or less was 20%, and they generated 6% of the full-time student equivalent (FTSE) enrollment. At that time, students who enrolled for 12 credit hours or more represented almost 40% of the headcount and more than 65% of the FTSE. By the fall of 1987, 47% of MCCCD's students enrolled for three credit hours or less, and they generated almost 20% of the FTSE. Only 18.5% of the students took 12 credit hours or more, generating less than 42% of the FTSE. Nationwide, approximately 70% of community college students enrolled in 1970 attended full time, while in 1987, 33% were full-time students. The main implications of the growing percentage of students attending part-time are the effect on funding, within the framework of a formula that assumes students attend full time, and the length of time needed by a part-time student to obtain an associate degree. Given demographic trends and MCCCD's efforts to accommodate adult students, it is likely that this trend toward part-time enrollments will continue. Tables showing credit hour distributions are appended. (JMC)

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CHANGES IN CREDIT HOUR DISTRIBUTION

Alfredo G. de los Santos, Jr.

Maricopa Community College District

January 23, 1989

Prepared for distribution at a meeting of the Presidents Council of the Maricopa County Community College District (Phoenix, AZ, January 25, 1989).

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JC 890 277

MARICOPA COMMUNITY COLLEGES

M E M O R A N D U M

DATE: January 23, 1989

TO: Executive Group

FROM: Alfredo G. de los Santos Jr.

SUBJECT: CHANGES IN CREDIT HOUR DISTRIBUTION

Attached for your review is information about the changing pattern of the number of credit hours for which our students enroll.

As you can see in the summary report, the percentage of students who enrolled for three credit hours or less in 1969 was 20% and they generated 6% of the FTSE. At that time, the number of students who enrolled for 12 credit hours or more represented almost 40% of the headcount and they generated more than 65% of the FTSE.

By the fall of 1987, the number of students who enrolled for three credit hours or less was 47% and they generated almost 20% of the FTSE, while the number of students who took 12 credit hours or more dropped to 18.5%, and the percentage of FTSE they generated was less than 42%.

I hope that this information is useful to you.

Muchas gracias.

AGdlS/pb
Attachments

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S U M M A R Y

CHANGES IN CREDIT HOUR DISTRIBUTION

1969 TO 1987

# Hours	Fall 1969 % Students	Fall 1969 % FTSE	Fall 1979 % Students	Fall 1979 % FTSE	Fall 1987 % Students	Fall 1987 % FTSE
1-3	20.0	6.0	31.3	11.4	47.1	19.6
4-6	23.8	13.7	26.7	19.7	21.0	18.8
7-11	16.3	14.9	18.0	21.7	13.4	19.7
12+	39.9	65.4	24.0	47.2	18.5	41.9

To read chart: In Fall 1969 20.0% of all (headcount) students took between 1-3 credit hours. Their enrollment represented 6.0% of all the credit hours taken or 6.0% of total FTSE.

The chart above shows the percentage of students within the Maricopa Community Colleges by the number of credit hours they have taken. Second, it shows the percentage of FTSE that each group contributed to total FTSE.

The greatest changes in the number of hours taken is in the 1-3 range and the 12+ range:

1 -- In 1969 one-fifth of the students took 3 or fewer hours; by 1979 this had risen to just under a third of the students; and by 1987 nearly half of the students took 1-3 hours. In 1969 the credit hours taken by the 1-3 group represented only 6% of total FTSE; it had risen to just over 10% by 1979; and rose again to nearly 20% of FTSE by 1987.

2 -- For those students taking 12 or more hours the comparisons are: In 1969 roughly 40%, or two out of five students fell in this group; and in 1979 about one out of four students took 12+ hours. Compare this to less than one of five students, or 18.5%, in 1987. The percentage of FTSE generated by full-time students was 65% in 1969, fell to just under half by 1979, and fell again to just over 40% by 1987.

To put these figures in a national context, in 1970 roughly 52% of community college students attended full-time, while in 1987 33% attended full-time. Arizona has had a much larger percentage of its population (particularly its adult population) attend colleges. This is reflected in the fact that Maricopa's part-time percentages have always been much higher than the national averages: 60% part-time in Maricopa compared to 48% part-time nationally in 1969-1970, and 82% part-time in Maricopa to 67% part-time nationally in 1987.

The two most significant implications of the growing percentage of students who attend part-time are funding and graduation rates.

1 -- Funding: Only 5% of all students district-wide take 15 or more hours a semester. This means that 95% of the students are doing something other than what our funding structure assumes they are doing.

2 -- Graduation Rates: In Fall 1987 2.6% of the students took 16 or more hours a semester. Since all of Maricopa's AA and AAS degrees require a minimum of 64 hours, a student would have to take an average of 16 hours for four semesters to graduate in two years. There are simply very small percentages of students taking enough hours in any given term that would allow them to graduate within two years.

It is likely that this trend -- an increasingly smaller percentage of full-time students -- will continue. The first reason is the demographic changes in the age of the population. The second is the work Maricopa has done to accommodate adult students.

1 -- The next chart presents data from the 1985 Special Census of Maricopa County.

1982 - 33,134	1989 - 26,402	1996 - 25,436
1983 - 31,801	1990 - 24,825	1997 - 26,935
1984 - 28,251	1991 - 24,024	1998 - 29,875
1985 - 27,522	1992 - 23,866	1999 - 28,531
1986 - 25,700	1993 - 25,013	2000 - 28,849
1987 - 26,479	1994 - 24,377	2001 - 28,951
1988 - 27,944	1995 - 24,437	2002 - 27,639
		2003 - 28,864

The figures are the total number of 18 year olds there would be in the population for each fall semester from 1982 to 2003. There are several interesting things to notice. First, the population of 18 year olds is NEVER as large as it was in 1982 and 1983. Second, notice the "baby bust" years. There is "early baby bust" from 1986 to 1989, "very low baby bust" from 1990 to 1995, and "coming out of baby bust" from 1996 to 1997. From 1998 to 2003 there are higher numbers of 18 year olds, but never again as high as the 1982-1983 period. Since Phoenix experiences very high rates of in-migration, the population of 0 to 18 year olds will also grow. Ten years from now, the potential number of 18 year olds is likely to be higher than reflected in the figures presented here. However, the percentage of people aged 18-24 (from which full-time students are diproportionately drawn) will be smaller compared to the total adult population resulting in smaller percentages of full-time students.

2 -- Maricopa has made a serious effort to accommodate its

adult students by extending hours, running short-term and open-entry open-exit courses, a college without walls, and many other efforts. As adults find they can attend, more will do so.

In summary, the percentage of students taking 1-3 hours (generally one class) has risen from 20% in 1969 to just under half of all students by 1987. Those enrolled full-time have

dropped from nearly 40% in 1969 to under 20% in 1987. While full-time students took 65% of the course work (FTSE) in 1969, today they take just over 40%. The most significant implications of this is for funding -- 95% of the students do not meet the assumptions of our funding structure; and graduation rates. Very small (2.6%) percentages of students take enough courses to allow them to graduate in two years. These trends are likely to continue, since a smaller percentage of total population will be in the traditional college age group in the future.

MARICOPA COMMUNITY COLLEGES
NUMBER OF HOURS STUDENTS TAKE
FALL 1987-88

CRD HRS	CGCCC	GCC	GWCC	MCC	PC	PVCCC	RSCC	SCC	SHCC	DIST
0	57	0	163	11	2	0	47	54	0	334
1	241	1316	605	552	652	395	1284	510	222	5777
2	256	1490	733	1067	819	390	890	548	250	6442
3	644	3933	559	4502	3240	1359	6623	2036	1280	24175
4	72	839	246	929	849	183	430	314	54	3916
5	81	548	115	510	242	130	1211	182	60	3079
6	202	1907	311	2548	1571	476	1104	981	298	9398
7	41	442	93	678	628	62	84	217	32	2277
8	33	307	124	401	234	58	109	121	35	1422
9	79	957	146	1254	645	166	235	574	44	4000
10	15	338	71	524	354	47	67	247	26	1689
11	13	244	66	329	192	48	25	122	20	1059
12	63	1459	171	1915	1059	204	118	875	130	5994
13	19	740	95	829	583	87	40	430	61	2884
14	17	432	68	518	318	68	8	225	51	1705
15	14	454	65	550	339	63	31	251	47	1814
16	9	321	65	221	224	24	14	161	19	1058
17	3	106	23	107	124	13	6	51	11	444
18	1	59	33	83	64	6	11	34	6	297
19	1	16	41	26	23	0	3	14	1	125
20	1	12	17	15	5	0	1	17	0	68
21	0	3	9	12	3	2	1	1	1	32
22	0	3	8	0	1	0	0	0	0	12
23	0	0	1	9	0	0	1	0	0	2
24	0	0	2	0	1	0	0	0	0	3
25	0	0	1	0	0	0	0	0	0	1
TOTAL	1362	15876	3831	17581	12171	3781	12343	7965	2640	78008

PERCENTAGES FOR EACH CREDIT HOUR BY COLLEGE BY DISTRICT

CRD HRS	CGCCC	GCC	GWCC	MCC	PC	PVCCC	RSCC	SCC	SMCC	DIST
0	0.030612	0	0.042547	0.000625	0.000164	0	0.003807	0.006779	0	0.004281
1	0.129430	0.083154	0.157922	0.031397	0.053569	0.104469	0.104026	0.064030	0.083836	0.074056
2	0.137486	0.094148	0.191333	0.060690	0.067208	0.103147	0.072105	0.068801	0.094410	0.082581
3	0.345864	0.248515	0.145914	0.256071	0.266206	0.359428	0.536579	0.255618	0.483383	0.309916
4	0.038668	0.053014	0.064212	0.052841	0.069755	0.048399	0.034837	0.039422	0.020392	0.050199
5	0.043501	0.034624	0.030018	0.029008	0.019883	0.034382	0.098112	0.022849	0.022658	0.039470
6	0.108485	0.120497	0.081179	0.144929	0.129077	0.125892	0.089443	0.123163	0.112537	0.120474
7	0.022019	0.027928	0.024275	0.038564	0.051598	0.016397	0.006805	0.027244	0.012084	0.029189
8	0.017722	0.019398	0.032367	0.022808	0.019226	0.015339	0.008830	0.015191	0.013217	0.018228
9	0.042427	0.054151	0.038110	0.071327	0.052994	0.043903	0.019039	0.072065	0.016616	0.051276
10	0.008055	0.021357	0.018533	0.029804	0.029085	0.012430	0.005428	0.031010	0.009818	0.021651
11	0.006981	0.015417	0.017227	0.018713	0.015775	0.012695	0.002025	0.015317	0.007552	0.013575
12	0.033834	0.092190	0.044635	0.108924	0.087010	0.053953	0.009560	0.109855	0.049093	0.076838
13	0.010204	0.046758	0.024797	0.047153	0.047300	0.023009	0.003240	0.053986	0.023036	0.036970
14	0.009129	0.027296	0.017749	0.029463	0.026127	0.017984	0.000648	0.028248	0.019259	0.021856
15	0.007518	0.028686	0.016966	0.031283	0.027853	0.016662	0.002511	0.031512	0.017749	0.023254
16	0.004833	0.020283	0.016966	0.012570	0.018404	0.006347	0.001134	0.020213	0.007175	0.013562
17	0.001611	0.006697	0.006003	0.006086	0.010188	0.003438	0.000486	0.006403	0.004154	0.005691
18	0.000537	0.003728	0.008613	0.004721	0.005258	0.001586	0.000891	0.004268	0.002265	0.003807
19	0.000537	0.001010	0.010702	0.001478	0.001889	0	0.000243	0.001757	0.000377	0.001602
20	0.000537	0.000758	0.004437	0.000853	0.000410	0	0.000081	0.002134	0	0.000871
21	0	0.000189	0.002349	0.000682	0.000246	0.000528	0.000081	0.000125	0.000377	0.000410
22	0	0.000189	0.002088	0	0.000082	0	0	0	0	0.000153
23	0	0	0.000261	0	0	0	0.000081	0	0	0.000025
24	0	0	0.000522	0	0.000082	0	0	0	0	0.000038
25	0	0	0.000261	0	0	0	0	0	0	0.000012
TOTAL	1	1	1	1	1	1	1	1	1	1

RUNNING PERCENTAGES BY COLLEGE AND DISTRICT

CRD HRS	CGCCC	GCC	GWCC	MCC	PC	PVCCC	RSCC	SCC	SMCC	DIST
0	0.030612	0	0.042547	0.000625	0.000164	0	0.003807	0.006779	0	0.004281
1	0.160042	0.083154	0.200489	0.032023	0.053734	0.104469	0.107834	0.070809	0.083836	0.078338
2	0.297529	0.177303	0.391803	0.092713	0.120943	0.207617	0.179940	0.139610	0.178247	0.160919
3	0.643394	0.425818	0.537718	0.348785	0.387149	0.567045	0.716519	0.395229	0.661631	0.470836
4	0.682062	0.478832	0.601931	0.401626	0.456905	0.615445	0.751357	0.434651	0.682024	0.521036
5	0.725563	0.513458	0.631949	0.430635	0.476789	0.649828	0.849469	0.457501	0.704682	0.560506
6	0.834048	0.633956	0.713129	0.575564	0.605866	0.775720	0.938912	0.580665	0.817220	0.680981
7	0.856068	0.661885	0.737405	0.614128	0.657464	0.792118	0.945718	0.607909	0.829305	0.710170
8	0.873791	0.681283	0.769772	0.636937	0.676690	0.807458	0.954549	0.623101	0.842522	0.728399
9	0.916219	0.735435	0.807883	0.708264	0.729685	0.851362	0.973588	0.695166	0.859133	0.773676
10	0.924274	0.756792	0.826416	0.738069	0.758770	0.863792	0.979016	0.726177	0.868957	0.801328
11	0.931256	0.772210	0.843643	0.756782	0.774546	0.876487	0.981041	0.741494	0.876510	0.814903
12	0.965091	0.864400	0.898279	0.865707	0.861556	0.930441	0.990601	0.851349	0.925604	0.891741
13	0.975295	0.911159	0.913077	0.912860	0.909456	0.953451	0.993842	0.905335	0.948640	0.928712
14	0.984425	0.938455	0.930827	0.942324	0.935584	0.971436	0.994490	0.933584	0.967900	0.950569
15	0.991944	0.967142	0.947794	0.973607	0.963437	0.988088	0.997002	0.965097	0.985649	0.973823
16	0.996777	0.987625	0.964761	0.986178	0.981842	0.994445	0.998136	0.985310	0.992824	0.987385
17	0.998388	0.994123	0.979764	0.992264	0.992030	0.997884	0.998622	0.991713	0.996978	0.993077
18	0.998925	0.997851	0.989378	0.996985	0.997288	0.999471	0.999513	0.995982	0.999244	0.996884
19	0.999462	0.998862	0.994080	0.998464	0.999176	0.999471	0.999756	0.997740	0.999622	0.998487
20	1	0.999620	0.994510	0.999317	0.999589	0.999471	0.999837	0.999074	0.999622	0.999359
21	1	0.999810	0.996867	1	0.999835	1	0.999918	1	1	0.999769
22	1	1	0.998955	1	0.999917	1	0.999918	1	1	0.999923
23	1	1	0.998216	1	0.999917	1	1	1	1	0.999948
24	1	1	0.999738	1	1	1	1	1	1	0.999987
25	1	1	1	1	1	1	1	1	1	1
TOTAL	1	1	1	1	1	1	1	1	1	12 1

RUNNING PERCENTAGES (FROM HIGH TO LOW)

RUNNING PERCENTAGES (FROM HIGH TO LOW)
BY COLLEGE AND DISTRICT

CRD HRS	CGCCC	GCC	GWCC	MCC	PC	PVCCC	RSCC	SCC	SMCC	DIST
0	1	1	1	1	1	1	1	1	1	1
1	0.969387	1	0.957452	0.999374	0.999835	1	0.996192	0.993220	1	0.995718
2	0.839957	0.916845	0.799530	0.967976	0.946265	0.895530	0.892165	0.929190	0.916163	0.921661
3	0.702470	0.822696	0.608196	0.907286	0.879056	0.792382	0.820059	0.860389	0.821752	0.839080
4	0.356805	0.574181	0.462281	0.651214	0.612850	0.431954	0.283480	0.604770	0.338368	0.529163
5	0.317937	0.521167	0.398068	0.598373	0.543094	0.384554	0.248642	0.565348	0.317975	0.479963
6	0.274436	0.486541	0.368050	0.569364	0.523210	0.350171	0.150530	0.542498	0.295317	0.439493
7	0.165950	0.366043	0.286870	0.424435	0.394133	0.224279	0.061087	0.419334	0.182779	0.319018
8	0.143931	0.338114	0.262594	0.385871	0.342535	0.207081	0.054281	0.392090	0.170694	0.289829
9	0.126208	0.318716	0.230227	0.363062	0.323309	0.192541	0.045450	0.376898	0.157477	0.271600
10	0.083780	0.264564	0.192116	0.291735	0.270314	0.148637	0.026411	0.304833	0.140861	0.220323
11	0.075725	0.243207	0.173683	0.261930	0.241229	0.136207	0.020983	0.273822	0.131042	0.198671
12	0.068743	0.227789	0.156356	0.243217	0.225453	0.123512	0.018958	0.258505	0.123489	0.185096
13	0.034908	0.135599	0.111720	0.134292	0.138443	0.069558	0.009398	0.148650	0.074395	0.108258
14	0.024704	0.088841	0.086922	0.087139	0.090543	0.046548	0.006157	0.094664	0.051359	0.071287
15	0.015574	0.061544	0.069172	0.057875	0.064415	0.028563	0.005509	0.066415	0.032099	0.049430
16	0.008055	0.032857	0.052205	0.028392	0.036562	0.011901	0.002997	0.034902	0.014350	0.026176
17	0.003222	0.012574	0.035238	0.013821	0.018157	0.005554	0.001863	0.014689	0.007175	0.012614
18	0.001611	0.005876	0.029235	0.007735	0.007969	0.002115	0.001377	0.008286	0.003021	0.006922
19	0.001074	0.002148	0.020621	0.003014	0.002711	0.000528	0.000486	0.004017	0.000755	0.003115
20	0.000537	0.001137	0.009919	0.001535	0.000821	0.000528	0.000243	0.002259	0.000377	0.001512
21	0	0.000379	0.005481	0.000682	0.000410	0.000528	0.000162	0.000125	0.000377	0.000640
22	0	0.000189	0.002271	0	0.000164	0	0.000081	0	0	0.000217
23	0	0	0.001044	0	0.000082	0	0.000081	0	0	0.000076
24	0	0	0.000783	0	0.000082	0	0	0	0	0.000051
25	0	0	0.000261	0	0	0	0	0	0	0.000012
TOTAL	1	1	1	1	1	1	1	1	1	1

CREDIT HOURS TAKEN BY STUDENTS

CRD HRS	CGCCC	GCC	GWCC	MCC	PC	PVCCC	RSCC	SCC	SMCC	DIST
0	0	0	0	0	0	0	0	0	0	0
1	241	1316	605	552	652	395	1284	510	222	5777
2	512	2990	1466	2134	1636	780	1780	1096	500	12884
3	1932	11799	1677	13506	9720	4077	19869	6108	3840	72528
4	298	3356	984	3716	3396	732	1720	1256	216	15664
5	405	2740	575	2550	1210	650	6055	910	300	15395
6	1212	11442	1866	15288	9426	2856	6624	5886	1788	56388
7	287	3094	651	4746	4396	434	588	1519	224	15939
8	264	2456	992	3208	1872	464	872	968	280	11376
9	711	7713	1314	11286	5805	1494	2115	5166	396	36000
10	150	3380	710	5240	3540	470	670	2470	260	16890
11	143	2684	726	3619	2112	528	275	1342	220	11649
12	756	17508	2052	22980	12708	2448	1416	10500	1560	71928
13	247	9620	1235	10777	7579	1131	520	5590	793	37492
14	238	6048	952	7252	4452	952	112	3150	714	23870
15	210	6810	975	8250	5085	945	465	3765	705	27210
16	144	5136	1040	3536	3584	384	224	2576	304	16928
17	51	1802	391	1819	2108	221	102	867	187	7548
18	18	1062	594	1494	1152	108	198	612	108	5346
19	19	304	779	494	437	0	57	266	19	2375
20	20	240	340	300	100	0	20	340	0	1360
21	0	63	189	252	63	42	21	21	21	672
22	0	66	176	0	22	0	0	0	0	264
23	0	0	23	0	0	0	23	0	0	46
24	0	0	48	0	24	0	0	0	0	72
25	0	0	25	0	0	0	0	0	0	25
TOTAL	7848	101619	20385	122999	81079	19111	45010	54918	12657	465626
FTSE	523.2	6774.6	1359	8199.933	5405.266	1274.066	3000.666	3661.2	843.8	31041.73

% OF CREDIT HOUR (FTSE) TAKEN BY STUDENTS
AT EACH CREDIT HOUR LEVEL BY DISTRICT & COLLEGE

CRD HRS	CGCCC	GCC	GWCC	MCC	PC	PVCCC	RSCC	SCC	SMCC	DIST
0	0	0	0	0	0	0	0	0	0	0
1	0.030708	0.012950	0.029678	0.004487	0.008041	0.020668	0.028526	0.009286	0.017539	0.012406
2	0.065239	0.029325	0.071915	0.017349	0.020177	0.040814	0.039546	0.019957	0.039503	0.027670
3	0.246177	0.116110	0.082266	0.109805	0.119883	0.213332	0.441435	0.111220	0.303389	0.155764
4	0.036697	0.033025	0.048270	0.030211	0.041885	0.038302	0.038213	0.022870	0.017065	0.033640
5	0.051605	0.026963	0.028207	0.020731	0.014923	0.034011	0.134525	0.016570	0.023702	0.033063
6	0.154434	0.112597	0.091537	0.124293	0.116256	0.149442	0.147167	0.107177	0.141265	0.121101
7	0.036569	0.030447	0.031935	0.038585	0.054218	0.022709	0.013063	0.027659	0.017697	0.044231
8	0.033639	0.024168	0.040663	0.026081	0.023088	0.024279	0.019373	0.017626	0.022122	0.024431
9	0.090596	0.075901	0.064459	0.091756	0.071596	0.078174	0.046989	0.094067	0.031287	0.077315
10	0.019113	0.033261	0.034829	0.042601	0.043661	0.024593	0.014885	0.044976	0.020541	0.036273
11	0.018221	0.026412	0.035614	0.029423	0.026048	0.027628	0.006109	0.024436	0.017381	0.025017
12	0.096330	0.172290	0.100662	0.186830	0.156736	0.128093	0.031459	0.191194	0.123251	0.154475
13	0.031472	0.094667	0.060583	0.087618	0.093476	0.059180	0.011552	0.101788	0.062653	0.080519
14	0.030326	0.059516	0.046701	0.058959	0.054809	0.049814	0.002488	0.057358	0.056411	0.051264
15	0.026758	0.067015	0.047829	0.067073	0.062716	0.049447	0.010331	0.060556	0.055700	0.058437
16	0.018348	0.050541	0.051017	0.028748	0.044203	0.020093	0.004976	0.046906	0.024018	0.036355
17	0.006498	0.017732	0.019180	0.014789	0.025999	0.011564	0.002266	0.015787	0.014774	0.016210
18	0.002293	0.010450	0.029139	0.012146	0.014208	0.005651	0.004399	0.011143	0.008582	0.011481
19	0.002420	0.002991	0.038214	0.004016	0.005389	0	0.001266	0.004843	0.001501	0.005100
20	0.002548	0.002361	0.016678	0.002439	0.001233	0	0.000444	0.006191	0	0.002920
21	0	0.000619	0.009271	0.002048	0.000777	0.002197	0.000466	0.000382	0.001659	0.001443
22	0	0.000649	0.008633	0	0.000271	0	0	0	0	0.000566
23	0	0	0.001128	0	0	0	0.000510	0	0	0.000098
24	0	0	0.002354	0	0.000296	0	0	0	0	0.000154
25	0	0	0.001226	0	0	0	0	0	0	0.000053
TOTAL	1	1	1	1	1	1	1	1	1	1

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ERIC Clearinghouse for
Junior Colleges JUL 28 1989